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COMMUNIST COUNTRIES

1962-63

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INTRODUCTION

This paper provides estimates of the consumption of petroleum products by the military forces of the Communist countries for the years 1962 and 1963. Previous papers in this series were:

- 1) EIC-PSC-WP1, 1 April 1956 for the years 1950-1955.
- 2) EIC-PSC-WP2, 1 March 1958 for the years 1956-1957.
- 3) EIC-PSC-WP3, 1 March 1960 for the years 1958-1959.
- 4) EIC-PSC-WP4, 1 April 1962 for the years 1960-1961.

No attempt has been made to revise the estimates contained in these earlier studies.

In this paper the following distinctions are made: Communist countries include the Soviet Bloc (USSR, Bulgaria, Czechoslovakia, East Germany, Hungary, Poland and Rumania); the European Satellites (the foregoing exclusive of the USSR); Far Eastern Communist countries (Communist China, North Korea, and North Vietnam); and Other Communist countries (Albania and Mongolia). Data are not included for the military forces of such Other Communist countries as Cuba or Yugoslavia.

The estimates of consumption of petroleum by the military forces of the Communist countries were developed by the Defense Intelligence Agency. The estimates presented in this paper were derived from calculations based on probable numbers and types of equipment, the estimated use thereof, and the consumption of petroleum per unit of time or distance.* The assumptions made, and methodology used, to derive the estimates for this paper are essentially the same as for WP-3, 2, and 1.

The estimates of consumption of petroleum by the Army (Tables A-1 through A-9), Navy (Tables B-1 and B-2), Air Forces (Tables C-1 through C-6), and Soviet Strategic Rocket Forces (Table D-1) of the Communist countries for the years 1962 and 1963 are summarized in Table 1.** Estimates of consumption, by country and by type of petroleum product are summarized in Table 2. In this paper, as in WP4 and WP3, the estimates of consumption of petroleum by Naval Air Forces of the Communist countries were included under Naval Forces. In WP2 and WP1, such estimates were included under Air Forces.

Notable reductions in the estimates of consumption for 1962 compared to 1961 have occurred in the estimates for the consumption of aircraft fuels, particularly jet fuels, by the Air Forces of the USSR. The lower estimates are attributed to:

- a. Reduced estimate of fuel consumption rates,
- b. Reduced estimate of Long Range Aircraft routine flight time,
- c. Reduced estimate of Air Order of Battle.

The paper was prepared under the sponsorship of the Economic Intelligence Committee Subcommittee on Petroleum to meet a designated research deficiency and is designed to serve members of the intelligence community in the preparation of petroleum supply/demand studies of Communist countries.

* The estimates of consumption represent the best available information as of 1 January 1964.

** In Tables 1 and 2 all data have been rounded to three significant digits; in Tables A-1 through D-1 all data have been rounded to the nearest hundred. Because of rounding, components may not add to the totals shown in all tables.

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Table 1

Consumption of Petroleum by the Military Forces
of the Communist Countries by Force and by Country,
1962-63

Force	USSR	Czechoslovakia	East Germany					Communist China	North Korea	Czech Republic		Total
			Slovakia	Germany	Hungary	Poland	Rumania			Poland	Czech Republic	
1962												
Ground Forces	1430	39	102	50	24	51	37	349	20	16	5	2130
Naval Forces	1720	30	0	42	0	81	37	282	29	13	13	2250
Air Forces	5350	62	150	49	26	130	40	361	86	3	0	5870
Rocket Troops	296	0	0	0	0	0	0	0	0	0	0	296
Total	8800	132	252	141	50	261	114	992	134	32	18	9900
1963												
Ground Forces	1400	46	113	52	28	50	41	349	20	16	5	2120
Naval Forces	1710	24	0	44	0	79	37	284	32	14	13	2240
Air Forces	5510	60	150	53	32	119	40	342	82	4	0	5900
Rocket Troops	480	0	0	0	0	0	0	0	0	0	0	480
Total	9100	131	263	149	60	247	117	975	134	34	18	1200

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Table 2

Consumption of Petroleum by the Military Forces
of the Communist Countries by Country and by Product
1962-63

	Thousand Metric Tons						Total
	Aviation Gasoline	Jet Fuel	Motor Gasoline	Diesel Fuel	Residual Fuel Oil	Lubricants	
1962							
USSR	511	5260	1270	1000	637	119	8800
Bulgaria	6	55	38	24	7	3	132
Czechoslovakia	15	131	80	21	0	5	252
East Germany	6	42	42	45	3	3	141
Hungary	2	23	21	2	0	1	50
Poland	8	132	45	59	12	5	261
Rumania	6	32	32	30	12	3	114
Communist China ✓	54	360	327	204	24	22	992
North Korea	4	78	20	30	0	2	134
North Vietnam	3	0	16	13	0	1	32
Albania	1	5	6	10	2	1	24
Mongolia	2	0	2	0	0	0	4
Total	<u>617</u>	<u>6120</u>	<u>1900</u>	<u>1440</u>	<u>697</u>	<u>166</u>	<u>10900</u>

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Table 2
(Cont)

Consumption of Petroleum by the Military Forces
of the Communist Countries by Country and by Product
1962-63

	Aviation Gasoline	Jet Fuel	Motor Gasoline	Diesel Fuel	Residual Fuel Oil	Lubricants	Total
Thousand Metric Tons							
1963							
USSR	508	5440	1350	1060	614	123	9100
Bulgaria	6	52	42	25	3	3	131
Czechoslovakia	16	130	88	23	0	6	263
East Germany	6	45	43	49	2	4	149
Hungary	4	27	25	3	0	1	60
Poland	6	123	47	53	12	5	247
Romania	5	33	34	31	12	3	117
Communist China	56	339	327	206	24	22	975
North Korea	4	76	21	33	0	2	134
North Vietnam	4	0	16	13	0	1	34
Albania	1	5	5	10	2	1	24
Mongolia	2	0	2	0	0	0	4
Total	<u>617</u>	<u>6270</u>	<u>2000</u>	<u>1500</u>	<u>670</u>	<u>171</u>	<u>11200</u>

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Table A-1

Estimated Consumption of Petroleum
by the Ground Forces of the Soviet Army
1962-63

		Thousand Metric Tons			
	Location of Units	Motor Gasoline	Diesel Fuel	Lubricants	Total
1962	USSR	824.8	289.3	55.7	1,169.8
	East Germany	161.5	40.7	10.1	212.3
	Hungary	21.4	7.3	1.4	30.1
	Poland	13.1	4.9	.9	18.9
	Total	<u>1,020.8</u>	<u>342.2</u>	<u>68.2</u>	<u>1,431.2</u>
1963	USSR	799.2	282.4	54.1	1,135.7
	East Germany	161.5	40.7	10.1	212.3
	Hungary	21.4	7.3	1.4	30.1
	Poland	13.1	4.9	.9	18.9
	Total	<u>995.2</u>	<u>335.3</u>	<u>66.5</u>	<u>1,397.0</u>

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Table A-2

Estimated Consumption of Petroleum by the Ground Forces
of the Soviet Army, by Type of Unit
1962

Type of Unit	Motor Gasoline	Diesel Fuel	Lubricants	Total Thousand Metric Tons
<u>Line Divisions</u>				
104 Motorized Rifle	402.2	172.7	28.7	603.6
34 Tank	116.3	76.5	9.6	202.4
7 Airborne	9.6	0	.5	10.1
Total	528.0	249.2	38.9	816.1
<u>Non-Divisional Support</u>				
7 Gun Arty. Div.	13.1	4.3	.9	18.2
3 Breakthrough Arty. Div.	13.4	1.8	.8	16.0
7 Corps Troops	9.4	1.5	.5	11.4
17 CA Army w/Rear	128.2	35.8	8.2	172.2
6 Tank Army w/Rear	40.3	8.0	2.4	50.7
Groups of Forces	33.9	3.1	1.8	38.8
Ministry of Defense	168.4	33.0	10.1	211.4
Total	406.6	87.5	24.7	518.8
<u>Miscellaneous</u>				
Total Soviet Army Ground Forces	1,020.8	342.2	68.2	1,431.2

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Table A-3

Estimated Consumption of Motor Gasoline by the Ground Forces
of the Soviet Army, by Type of Unit
1962

Type of Unit	Vehicles in thousands Fuel consumed in thousand metric tons					
	Transport Vehicles		Other Vehicles		Total	
	Vehicles	Fuel Consumed	Vehicles	Fuel Consumed	Vehicles	Fuel Consumed
Line Divisions						
104 Motorized Rifle	147.7	367.7	47.8	34.4	195.5	402.2
34 Tank	43.1	107.3	12.4	8.9	55.5	116.3
7 Airborne	1.8	4.5	7.1	5.1	8.9	9.6
Total	192.6	479.6	67.3	48.5	259.9	528.0
Non-Divisional Support						
7 Gen Arty. Div.	5.2	12.9	.2	.2	5.4	13.1
3 Breakthrough Arty. Div.	5.4	13.3	.1	.1	5.5	13.4
7 Corps Troops	1.8	4.6	6.7	4.8	8.5	9.4
17 CA Army w/Rear	48.2	120.0	11.4	8.2	59.6	128.2
6 Tank Army w/Rear	15.1	37.6	3.8	2.7	17.8	40.3
Groups of Forces	12.4	31.0	4.1	2.9	16.5	33.9
Ministry of Defense	41.5	103.1	81.5	65.2	123.1	168.4
Total	129.6	322.5	107.8	84.1	237.4	406.6
Miscellaneous*	N.A.	N.A.	N.A.	N.A.	N.A.	86.2
Total Soviet Army Ground Forces	322.2	802.0	175.1	132.6	497.4	1,020.8

* Radars, motor boats, outboard motors, motorcycles, etc.

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Table A-4

Estimated Consumption of Diesel Fuel by the Ground Forces
of the Soviet Army, by Type of Unit
1962

Type of Unit	Medium Tanks & Aslt Guns*		Heavy Tanks & Aslt Guns		TPM, Tank Retrievers**		Vehicles in Thousands Fuel Consumed in Thousands Metric Tons	
	Vehicles	Fuel Consumed	Vehicles	Fuel Consumed	Vehicles	Fuel Consumed	Vehicles	Fuel Consumed
Line Divisions								
104 Motorized Rifle	30.5	93.2	1.0	6.4	29.2	73.1	60.7	172.7
34 Tank	11.1	33.9	5.0	31.0	4.6	11.6	20.7	76.5
Total	<u>41.6</u>	<u>127.2</u>	<u>6.0</u>	<u>37.4</u>	<u>33.8</u>	<u>84.6</u>	<u>81.4</u>	<u>249.2</u>
Non-Divisional Support								
7 Gun Arty. Div.	0	0	0	0	1.7	4.2	1.7	4.3
3 Breakthrough Arty. Div	0	0	0	0	.7	1.8	.7	1.8
7 Corps Troops	0	0	0	0	.6	1.5	.6	1.5
17 CA Army w/Rear	0	0	0	0	11.5	28.7	11.5	28.7
6 Tank Army w/Rear	0	0	0	0	3.2	8.0	3.2	8.0
Groups of Forces	0	0	0	0	1.2	3.1	1.2	3.1
Ministry of Defense	2.2	6.6	0	0	10.5	26.4	12.7	33.0
Total	<u>2.2</u>	<u>6.6</u>	<u>0</u>	<u>0</u>	<u>29.5</u>	<u>73.7</u>	<u>31.6</u>	<u>80.3</u>
Miscellaneous***	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	5.5
Total Soviet Army Ground Forces	<u>43.7</u>	<u>133.8</u>	<u>6.0</u>	<u>37.4</u>	<u>63.3</u>	<u>158.3</u>	<u>113.0</u>	<u>335.0</u>

* Includes light tanks.

** Includes mine clearing tanks, dozers, tracked APC's, etc.

*** Maintenance checks of tanks and assault guns in storage.

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Table A-5

Estimated Consumption of Petroleum by the Ground Forces
of the Soviet Army, by Type of Unit
1963

Type of Unit	Motor Gasoline	Diesel Fuel	Thousand Metric Tons	
			Lubricants	Total
Line Divisions				
92 Motorized Rifle	355.8	169.3	26.3	551.4
44 Tank	150.5	79.8	11.5	241.8
7 Airborne	9.6	0	.5	10.1
Total	515.8	249.1	38.2	803.2
Non-Divisional Support				
7 Gun Arty. Div.	13.1	4.3	.9	18.2
7 Corps Troops	9.4	1.5	.5	11.4
17 CA Army w/Rear	128.2	28.7	7.8	164.7
6 Tank Army w/Rear	40.3	8.0	2.4	50.7
Groups of Forces	33.9	3.1	1.8	38.8
Ministry of Defense	168.4	33.0	10.1	211.4
Total	393.2	78.5	23.6	495.3
Miscellaneous	86.2	7.6	4.7	98.5
Total Soviet Army Ground Forces	995.2	335.3	66.5	1,397.1

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Table A-6

Estimated Consumption of Motor Gasoline by the Ground Forces
of the Soviet Army, by Type of Unit
1963

Type of Unit	Transport Vehicles		Other Vehicles		Vehicles in Thousands Fuel Consumed in Thousand Metric Tons	
	Vehicles	Fuel Consumed	Vehicles	Fuel Consumed	Total	
					Vehicles	Fuel Consumed
Line Divisions						
92 Motorized Rifle	130.6	325.3	42.3	30.5	173.0	355.8
44 Tank	55.8	138.9	16.1	11.6	71.9	150.5
7 Airborne	1.8	4.5	7.1	5.1	8.9	9.6
Total	188.2	468.7	66.5	47.1	253.7	515.8
Non-Divisional Support						
7 Gun Arty. Div.	5.2	12.9	.2	.2	5.4	13.1
7 Corps Troops	1.8	4.6	6.7	4.8	8.5	9.4
17 CA Army w/Rear	48.2	120.0	11.4	8.2	59.6	128.2
6 Tank Army w/Rear	15.1	37.6	3.8	2.7	18.9	40.3
Groups of Forces	12.4	31.0	4.1	2.9	16.5	33.9
Ministry of Defense	41.5	103.1	81.5	65.2	123.1	168.4
Total	124.3	309.1	107.7	84.1	232.0	393.2
Miscellaneous	N.A.	N.A.	N.A.	N.A.	N.A.	86.2
Total Soviet Army Ground Forces	312.5	777.8	174.2	131.2	485.7	995.2

* Radars, motor boats, outboard motors, motorcycles, etc.

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Table A-7

Estimated Consumption of Diesel Fuel by the Ground Forces
of the Soviet Army, by Type of Unit
1963

Type of Unit	Medium Tanks & Aslt Guns*		Heavy Tanks & Aslt Guns		TPM, Tank Retrievers**		Vehicles in Thousands	
							Fuel Consumed in Thousand Metric Tons	
	Vehicles	Fuel Consumed	Vehicles	Fuel Consumed	Vehicles	Fuel Consumed	Vehicles	Total
Line Divisions								
92 Motorized Rifle	26.0	79.7	.9	5.7	25.9	84.0	52.8	169.3
44 Tank	8.3	25.3	6.4	39.5	6.0	15.0	20.7	79.8
Total	<u>34.3</u>	<u>105.0</u>	<u>7.3</u>	<u>45.2</u>	<u>31.8</u>	<u>99.0</u>	<u>73.5</u>	<u>249.1</u>
Non-Divisional Support								
7 Gun Arty Div.	0	0	0	0	1.7	4.3	1.7	4.3
7 Corps Troops	0	0	0	0	.6	1.5	.6	1.5
17 CA Army w/Rear	0	0	0	0	11.5	28.7	11.5	28.7
6 Tank Army w/Rear	0	0	0	0	3.2	8.0	3.2	8.0
Groups of Forces	0	0	0	0	1.2	3.1	1.2	3.1
Ministry of Defense	2.2	6.6	0	0	10.5	26.4	12.7	33.0
Total	<u>2.2</u>	<u>6.6</u>	<u>0</u>	<u>0</u>	<u>28.7</u>	<u>71.9</u>	<u>30.9</u>	<u>78.5</u>
Miscellaneous***	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	7.6
Total Soviet Army Ground Forces	<u>36.5</u>	<u>111.6</u>	<u>7.3</u>	<u>45.2</u>	<u>60.6</u>	<u>170.9</u>	<u>104.4</u>	<u>335.3</u>

* Includes Light tanks.

** Includes mine clearing tanks, dozers, tracked APC's, etc.

*** Maintenance checks of tanks and assault guns in storage.

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Table A-8

Estimated Consumption of Petroleum by the Ground Forces
of the European Satellites and Albania, by Country and by Product

1962-63

Country	Motor Gasoline	Diesel Fuel	Lubricants	Thousand Metric Tons Total
<u>1962</u>				
Albania	3.3	1.1	.2	4.6
Bulgaria	32.6	4.9	1.9	39.4
Czechoslovakia	77.4	19.7	4.9	102.0
East Germany	39.8	7.3	2.4	49.4
Hungary	20.6	1.8	1.1	23.6
Poland	38.1	9.0	3.8	50.9
Rumania	28.1	7.1	1.8	37.0
Total	<u>240.0</u>	<u>50.9</u>	<u>16.0</u>	<u>306.8</u>
<u>1963</u>				
Albania	3.3	1.1	.2	4.6
Bulgaria	39.0	5.2	2.2	46.5
Czechoslovakia	86.0	21.9	5.4	113.3
East Germany	40.1	9.6	2.5	52.1
Hungary	24.3	2.3	1.3	27.9
Poland	40.6	5.2	3.7	49.5
Rumania	31.6	7.1	1.9	40.6
Total	<u>264.8</u>	<u>52.4</u>	<u>17.2</u>	<u>334.5</u>

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Table A-9

Estimated Consumption of Petroleum by the Ground Forces
of the Far Eastern Communist Countries and Mongolia,
by Country and by Product
1962-63

Country	Motor Gasoline	Diesel Fuel	Lubricants	Thousand Metric Tons Total
<u>1962</u>				
Communist China ✓	308.0	24.5	16.7	349.2
Mongolia	2.1	.3	.3	2.6
North Korea	17.6	1.5	1.0	20.1
North Vietnam	15.4	.2	.8	15.4
Total	<u>343.1</u>	<u>26.4</u>	<u>18.7</u>	<u>388.2</u>
<u>1963</u>				
Communist China ✓	308.0	24.5	16.7	349.2
Mongolia	2.1	.2	.3	2.6
North Korea	17.6	1.5	1.0	20.1
North Vietnam	15.4	.2	.8	16.4
Total	<u>343.1</u>	<u>26.4</u>	<u>18.7</u>	<u>388.2</u>

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Table B-1
 Estimated Consumption of Petroleum Products by the USSR,
 the European Satellites and Albania, by Country and by Product
 1962-63

Country	Aviation Gasoline Grades, 100-95	Motor Gasoline	Jet Fuel	Diesel Fuel	Residual Fuel Oil	Lubricants	Thousand Metric Tons Total
1962							
USSR							
Baltic Fleet	6.0	8.9	73.1	169.2	143.0	5.4	405.6
Northern Fleet	6.5	8.9	143.5	132.1	183.6	5.2	479.8
Pacific Fleet	7.8	8.2	153.3	112.8	182.3	4.8	469.2
Black Sea Fleet	2.7	10.8	113.5	110.2	128.0	4.2	369.4
Total	23.0	36.8	483.4	524.3	636.9	19.6	1,724.0
Albania	-	2.0	-	8.9	2.0	.3	13.2
Bulgaria	-	4.6	-	18.3	6.9	.7	30.5
East Germany	-	1.5	-	37.4	2.6	.8	42.3
Poland	.3	3.2	15.5	48.2	12.1	1.3	80.6
Rumania	-	2.4	-	21.7	12.2	.7	37.0
Total	.3	13.7	15.5	134.5	35.8	3.8	203.6
Grand Total	23.3	50.5	498.9	658.8	672.7	23.4	1,927.6
1963							
USSR							
Baltic Fleet	5.8	8.9	103.2	154.4	139.2	5.1	416.6
Northern Fleet	10.2	8.9	137.2	136.0	175.9	4.2	472.4
Pacific Fleet	7.7	8.2	151.9	114.5	178.1	4.8	465.2
Black Sea Fleet	3.2	10.8	113.5	105.6	121.3	4.1	358.5
Total	26.9	36.8	505.8	510.5	614.5	18.2	1,712.7
Albania	-	1.2	-	9.3	2.0	.3	12.8
Bulgaria	-	1.3	-	19.0	3.2	.5	24.0
East Germany	-	1.6	-	39.3	2.1	.9	43.9
Poland	.3	3.1	15.5	46.6	12.1	1.2	78.8
Rumania	-	1.3	-	23.1	11.7	.6	36.7
Total	.3	8.5	15.5	137.3	31.1	3.5	196.2
Grand Total	27.2	45.3	521.3	647.8	645.6	21.7	1,908.9

Table B-2

Estimated Consumption of Petroleum by the Naval Forces
of the Far Eastern Communist Countries,
by Country and by Product,
1962-63

		Thousand Metric Tons					
Year	Country	Aviation Gasoline Grades 100-95	Motor Gasoline	Jet Fuel	Diesel Fuel	Residual Fuel Oil	Total
1962	Communist China ✓	1.8	8.9	68.0	174.6	24.2	281.8
	North Korea	0	.6	0	27.6	.6	28.8
	North Vietnam	0	.2	0	12.5	.3	13.0
	Total	<u>1.8</u>	<u>9.7</u>	<u>68.0</u>	<u>214.8</u>	<u>24.2</u>	<u>323.6</u>
1963	Communist China ✓	1.8	8.5	68.0	177.0	24.2	283.8
	North Korea	0	.8	0	30.4	.6	31.9
	North Vietnam	0	.2	0	13.1	.3	13.6
	Total	<u>1.8</u>	<u>9.5</u>	<u>68.0</u>	<u>220.5</u>	<u>24.2</u>	<u>329.3</u>

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Table C-1

Estimated Consumption of Petroleum by the Air Forces of the USSR,
by Unit and by Type of Product
1962

Description and Location of Units	Aviation Gasoline		Jet Fuel	Motor Gasoline	Diesel Fuel	Lubricants	Total
	Grade 100-95	Less than grade 95					
<u>USSR</u>							
Soviet Air Forces	125.5	0	2,512.6	32.8	14.9	6.1	2,691.9
Training	47.5	20.9	198.4	3.2	1.4	1.4	272.8
Civil Aviation	277.3	0	1,724.9	8.7	3.9	8.4	2,023.2
<u>East Germany</u>							
Soviet Air Forces	11.8	0	197.8	2.6	1.2	.5	213.9
<u>Hungary</u>							
Soviet Air Forces	.9	0	74.8	.7	.3	.1	76.9
<u>Poland</u>							
Soviet Air Forces	4.2	0	67.3	1.1	.5	.2	73.2
Total	<u>467.2</u>	<u>20.9</u>	<u>4,775.7</u>	<u>49.1</u>	<u>22.3</u>	<u>16.8</u>	<u>5,351.9</u>

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Estimated Consumption of Petroleum by the Air Forces of the European Satellites
and Albania, by Country, by Unit, and by Product
1962

Description and Location of Units	Aviation Gasoline		Jet Fuel	Motor Gasoline	Diesel Fuel	Lubricants	Total
	Grades 100-95	Less than grade 95					
<u>Albanian</u>							
Air Force	.2	0	5.2	.2	.1	(a)	5.8
Civil Aviation	.7	0	0	0	0	(a)	.7
<u>Bulgaria</u>							
Air Force	3.1	0	44.8	1.1	.5	.1	49.6
Training	.1	(a)	6.6	.1	(a)	(a)	6.8
Civil Aviation	2.6	0	3.2	.1	(a)	(a)	6.0
<u>Czechoslovakia</u>							
Air Force	7.5	0	72.2	2.4	1.1	.2	83.4
Training	.6	.1	7.4	.1	.1	(a)	8.3
Civil Aviation	6.3	0	51.3	.3	.1	.2	58.3
<u>East Germany</u>							
Air Force	1.9	0	37.1	.8	.4	.1	40.3
Training	.1	(a)	1.9	.1	(a)	(a)	2.1
Civil Aviation	3.5	0	2.8	.1	(a)	.1	6.4
<u>Hungary</u>							
Air Force	.2	0	15.4	.4	.2	(a)	16.2
Training	.1	(a)	1.0	.1	.1	(a)	1.3
Civil Aviation	2.0	0	6.8	.1	(a)	(a)	9.0
<u>Poland</u>							
Air Forces	2.6	0	94.3	3.0	1.4	.1	101.4
Training	1.1	.4	7.9	.1	(a)	(a)	9.5
Civil Aviation	3.3	0	14.7	.4	.2	.1	18.6
<u>Rumania</u>							
Air Force	.4	0	22.8	1.2	.5	(a)	24.9
Training	.4	.1	2.2	.1	(a)	(a)	2.8
Civil Aviation	5.3	0	6.8	.2	.1	.1	12.5
Total	42.0	.7	404.4	10.7	4.9	1.2	464.0

(a) Less than 50 tons.

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Table C-3

Estimated Consumption of Petroleum by the Air Forces
of the Far Eastern Communist Countries and Mongolia,
by Country, by Units, and by Product
1962

Description and Location of Units	Aviation Gasoline		Jet Fuel	Motor Gasoline	Diesel Fuel	Lubricants	Total
	Grades 100-95	Less than grade 95					
<u>China</u>							
Air Forces	30.4	0	275.5	9.6	4.2	1.0	320.7
Training	2.1	.4	10.8	.5	.2	.1	14.0
Civil Aviation	19.7	0	5.6	.4	.2	.3	26.2
<u>Mongolia</u>							
Civil Aviation	1.5	0	0	0	0	(a)	1.6
<u>North Korea</u>							
Air Force	2.1	0	75	2.2	1.0	.2	80.4
Training	.9	(a)	3.5	.1	(a)	(a)	4.5
Civil Aviation	.6	0	0	(a)	(a)	(a)	.7
<u>North Vietnam</u>							
Civil Aviation	2.9	0	0	.1	(a)	(a)	3.0
Total	<u>60.1</u>	<u>0.5</u>	<u>370.4</u>	<u>12.7</u>	<u>5.7</u>	<u>1.6</u>	<u>451.0</u>

(a) Less than 50 tons.

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Table C-4

Estimated Consumption of Petroleum by the Air Forces of the USSR,
by Unit and by Product
1963

Description and Location of Units	Aviation Gasoline		Jet Fuel	Motor Gasoline	Diesel Fuel	Lubricants	Thousand Metric Tons
	Grades 100-95	Less than grade 95					Total
<u>USSR</u>							
Soviet Air Forces	118.4	0	2,533.2	33.4	15.2	6.1	2,706.3
Training	49.4	21.8	206.3	3.4	1.5	1.5	283.8
Civil Aviation	274.3	0	1,782.7	8.9	4.0	7.3	2,077.3
<u>East Germany</u>							
Soviet Air Forces	11.1	0	273.8	2.7	1.2	.5	289.5
<u>Hungary</u>							
Soviet Air Forces	1.2	0	72.3	1.0	0.4	.1	75.1
<u>Poland</u>							
Soviet Air Forces	5.1	0	66.7	1.1	0.5	.2	73.6
Total	<u>459.5</u>	<u>21.8</u>	<u>4,935.1</u>	<u>50.5</u>	<u>22.9</u>	<u>15.8</u>	<u>5,505.5</u>

Estimated Consumption of Petroleum by the Air Forces of the European Satellites
and Albania, by Country, by Unit, and by Product
1963

1963

Thousand Metric Tons

Description and Location of Units	Aviation Gasoline		Jet Fuel	Motor Gasoline	Diesel Fuel	Lubricants	Total
	Grades 100-95	Less than grade 95					
<u>Albania</u>							
Air Force	.2	0	5.4	.2	.1	(a)	5.9
Civil Aviation	.7	0	0	0	0	(a)	.7
<u>Bulgaria</u>							
Air Force	3.4	0	42.8	1.2	.5	.1	48.0
Training	.1	(a)	6.3	.1	(a)	(a)	6.5
Civil Aviation	2.4	0	3.2	.1	(a)	(a)	5.8
<u>Czechoslovakia</u>							
Air Force	8.8	0	71.4	2.1	1.0	.2	83.4
Training	.6	.1	7.3	.1	.1	(a)	8.2
Civil Aviation	6.1	0	51.3	.3	.1	.2	58.0
<u>East Germany</u>							
Air Force	3.1	0	38.3	.8	.4	.1	42.7
Training	.1	(a)	1.9	.1	(a)	(a)	2.2
Civil Aviation	3.0	0	4.7	.1	(a)	.1	7.8
<u>Hungary</u>							
Air Force	.2	0	17.3	0.5	0.2	(a)	18.3
Training	.1	(a)	1.0	0.1	0.1	(a)	1.3
Civil Aviation	3.7	0	9.1	0.2	0.1	0.1	13.1
<u>Poland</u>							
Air Force	1.5	0	91	3.0	1.4	0.2	97.0
Training	1.0	0.4	7.6	0.1	(a)	(a)	9.2
Civil Aviation	3.0	0	8.9	0.2	0.1	0.1	12.4
<u>Romania</u>							
Air Force	0.4	0	24.1	1.1	0.5	0.1	26.0
Training	0.4	0.1	2.0	0.1	(a)	(a)	2.5
Civil Aviation	3.9	0	6.8	0.2	0.1	0.1	11.1
Total	42.6	0.7	400.5	10.4	4.8	1.2	460.3

(a) Less than 50 tons.

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Table C-6

Estimated Consumption of Petroleum by the Air Forces
of the Far Eastern Communist Countries and Mongolia,
by Country, by Unit, and by Product
1963

Description and Location of Units	Aviation Gasoline		Jet Fuel	Motor Gasoline	Diesel Fuel	Lubricants	Total
	Grades 100-95	Less than grade 95					
<u>China</u>							
Air Forces	30.0	0	255.7	9.6	4.2	1.0	300.5
Training	1.1	0.4	10.0	0.5	0.2	0.1	13.2
Civil Aviation	21.7	0	5.6	0.4	0.2	0.4	28.4
<u>Mongolia</u>							
Civil Aviation	1.7	0	0	0	0	(a)	1.8
<u>North Korea</u>							
Air Force	2.1	0	72.0	2.1	1.0	0.2	77.4
Training	0.8	(a)	3.5	0.1	(a)	(a)	4.5
Civil Aviation	0.6	0	0	(a)	(a)	(a)	0.7
<u>North Vietnam</u>							
Civil Aviation	3.6	0	0	0.1	(a)	0.1	3.8
Total	<u>62.7</u>	<u>0.5</u>	<u>346.8</u>	<u>12.6</u>	<u>5.7</u>	<u>1.6</u>	<u>430.1</u>

(a) Less than 50 tons.

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Table D-1
Estimated Consumption of Petroleum by the
Soviet Strategic Rocket Troops
1962-63

	Motor Gasoline	Diesel Fuel	Lubricants	Total	Thousand Metric Tons
1962	165.6	116.4	14.1	296.0	
1963	271.3	186.3	22.9	480.0	